

Studies of Azoles and Azines.
CI.* Reaction of 4,6-Dihydroxypyrimidine and Barbituric Acid
with 4,6-Dihydroxypyrimidine-5-carbaldehyde

A. V. Moskvina, N. M. Petrova, and B. A. Ivin

St. Petersburg State Pharmaceutical Chemistry Academy, St. Petersburg, Russia

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Abstract - Reaction of barbituric acid with 4,6-dihydroxypyrimidine-5-carbaldehyde in water at 20–60°C yields 5-(4,6-dihydroxypyrimidin-5-ylmethylene)barbituric acid. The same reaction performed in acetic acid at 120°C yields 5-aminomethylenearbituric acid. One of the pyrimidine rings also opens in the reaction of 4,6-dihydroxypyrimidine with 4,6-dihydroxypyrimidine-5-carbaldehyde, which yields pyrano[2,3-*d*]pyrimidine-6-carboxamide derivatives.